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BUDGET ITEM JUSTIFICATION SHEET P-40											DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy							P-1 ITEM NOMENCLATURE BA 3 - Torpedoes and Related Equipment					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Program
QUANTITY												
COST (\$M)				\$ 15.921	\$ 14.453	\$ 12.935	\$ 13.051	\$ 13.259	\$ 13.499	\$ 13.763	Continuing	Continuing
Initial Spares (\$M)												
<p>The ASW Range support program provides training range equipment, weapon proofing range equipment, and Fleet support equipment for use on the Navy's underwater ranges. This equipment is used to instrument Fleet exercises and torpedo firings, ASW readiness assessment and ASW weapon production acceptance testing. The Weapon Fleet training ranges supported are Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTEC) and Test and Evaluation (T&E) ranges are Nanoose, Dabob Bay and Quinalt.</p> <p>F4001 - Pinger Exercise Components are placed in weapons and other underwater vehicles for tracking during training and T&E exercises, and to insure safe operation and movement of all craft and weapons on the ranges. In addition, pinger components are also procured to support the future Shallow Water Training Ranges at both coasts and Hawaii.</p> <p>F4003 - Recovery Equipment is used on T&E ranges for recovering weapons on or buried in the sea floor. Approximately \$10 million of hardware is recovered each year using these devices.</p> <p>F4004 - The T&E Range Equipment line provides for improvement and modernization of range equipment for YTT (Yard Torpedo Tender) and test crafts; portable tracking range components used at remote sites for testing requirements in different sea-bottom, littoral and cold water environments; and other range systems in support of weapon T&E operations.</p> <p>F4005 - The ASW Target MK 30 Mod 1 provides essential fleet ASW training on the Navy's underwater tracking ranges. The MK 30 Mod 1 is currently used at the BARSTUR - Hawaii, AUTEC- Bahamas, and SCORE. ASW range support funds are used to procure components for the MK 30 that are consumed/expended during fleet in-water runs. These funds are also used to replace obsolete components and improve maintenance and reliability of the targets.</p> <p>F4006 - The stationary target components include the MK 28 Targets, and T&E Targets. MK 28 Targets are used for conducting Service Weapons Test (SWT) on in-service and advanced warshot torpedoes. The SWT is the only test the Navy has to verify the explosive chain of torpedoes. Funding is used to procure target systems and components expended during SWT operations in addition to improvement and modernization projects. The T&E targets include the MK 69, a bottom mounted stationary target, and Over-the-side (OTS), a surface deployed target, used to test various weapon attributes during T&E exercises. These targets are needed to fill specific technical requirements for the MK 48 ADCAP, MK 50 and MK54 torpedo upgrades. Funding is used to procure components that improve operability and maintenance of the target.</p> <p>F4007 - This is a Congressional plus-up to support the Northwest Range Complex that provides the test resources for acceptance testing for USW system acquisition. Funding will provide for upgrade of existing range systems that are required to keep the Range Complex viable. The major systems that require upgrade are: Range Craft and Craft Systems, Fire Control and Instrumentation, and Engineering and display systems.</p> <p>Production Engineering funds support efforts performed by a field activity or contractor during the production phase of these projects.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System							DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy BA 3 - Torpedoes and Related Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ASW Range Support BLI: 330200 SBHD: 83F4								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2002			FY 2003			FY 2004			FY 2005		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	N76														
F4001	Pinger Exercise Components								246			256			290
F4003	Recovery Equipment								41			30			25
F4004	Test & Evaluation Range Equipment								277			280			246
F4005	MK 30 Components								217			280			284
F4006	Stationary Target Components								143			153			158
F4007	NW Range Upgrade								321			192			0
F4830	Production Engineering In-House								205			237			249
F4850	Product Improvement								143			167			171
F4900	Production Engineering - Contractors								4			11			11
	N77														
F4001	Pinger Exercise Components								1,836			1875			2,152
F4003	Recovery Equipment								304			221			185
F4004	Test & Evaluation Range Equipment								2,049			2039			1,856
F4005	MK30 Components								1,600			2102			2,149
F4006	Stationary Target Components								1,056			1136			1,178
F4007	NW Range Upgrade								2,340			1433			0
F4830	Production Engineering In-House								1,515			1753			1,805
F4850	Product Improvement								1,053			1239			1,269
F4900	Production Engineering - Contractors								31			41			42
	N78														
F4001	Pinger Exercise Components								106			157			173
F4003	Recovery Equipment								18			18			15
F4004	Test & Evaluation Range Equipment								120			178			147
F4005	MK 30 Components								1,037			172			172
F4006	Stationary Target Components								62			95			94
F4007	NW Range Upgrade								139			125			0
F4830	Production Engineering In-House								625			151			154
F4850	Product Improvement								413			105			103
F4900	Production Engineering - Contractors								20			7			7
									15,921			14,453			12,935

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			Prior Years				FY 2003			FY 2004			FY 2005			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
F4001	N76 Pinger Exercise Components								246			256			290	
F4003	Recovery Equipment								41			30			25	
F4004	Test & Evaluation Range Equipment								277			280			246	
F4005	MK 30 Components															
F4006	Stationary Target Components								143			153			158	
F4007	NW Range Upgrade								321			192			0	
F4830	Production Engineering In-House								82			75			84	
F4850	Product Improvement								62			61			63	
F4001	N77 Pinger Exercise Components								1,836			1875			2,152	
F4003	Recovery Equipment								304			221			185	
F4004	Test & Evaluation Range Equipment								2,049			2039			1,856	
F4005	MK30 Components															
F4006	Stationary Target Components								1,056			1136			1,178	
F4007	NW Range Upgrade								2,340			1433			0	
F4830	Production Engineering In-House								605			558			583	
F4850	Product Improvement								457			456			469	
F4001	N78 Pinger Exercise Components								106			157			173	
F4003	Recovery Equipment								18			18			15	
F4004	Test & Evaluation Range Equipment								120			178			147	
F4005	MK 30 Components															
F4006	Stationary Target Components								62			95			94	
F4007	NW Range Upgrade								139			125			0	
F4830	Production Engineering In-House								35			47			55	
F4850	Product Improvement								27			38			38	
F4DEF	DEFERRAL															
F4001	N6 Pinger Exercise Components								0			0			0	
									10,326			9,423			7,811	

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System							DATE: July 2003		
APPROPRIATION/BUDGET ACTIVITY Weapons Procurement, Navy BA 3 - Torpedoes and Related Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ASW Range Support BLI: 330200 SBHD: 73F4								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2002			FY 2003			FY 2004			FY 2005		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost						
F4001 F4003 F4004 F4005 F4006 F4830 F4850 F4900	N76 Pinger Exercise Components Recovery Equipment Test & Evaluation Range Equipment MK 30 Components Stationary Target Components Production Engineering In-House Product Improvement Production Engineering - Contractors								217 123 81 4			280 162 106 11			284 165 108 11
F4001 F4003 F4004 F4005 F4006 F4007 F4830 F4850 F4900	N77 Pinger Exercise Components Recovery Equipment Test & Evaluation Range Equipment MK30 Components Stationary Target Components NW Range Upgrade Production Engineering In-House Product Improvement Production Engineering - Contractors								1,600 910 596 31			2102 1195 783 41			2,149 1,222 800 42
F4001 F4003 F4004 F4005 F4006 F4830 F4850 F4900	N78 Pinger Exercise Components Recovery Equipment Test & Evaluation Range Equipment MK 30 Components Stationary Target Components Production Engineering In-House Product Improvement Production Engineering - Contractors								1,037 590 386 20			172 104 67 7			172 99 65 7
F4005	N6 MK30 Components								0			0			0
SUBTOTAL									5,595			5,030			5,124
TOTAL									15,921			14,453			12,935

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